



## User's Guide

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MAIN – SM3

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### Specification

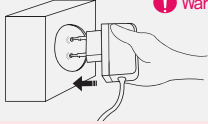

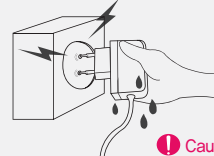
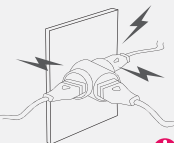
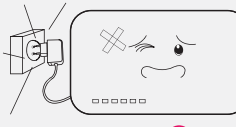
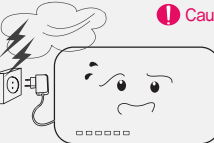
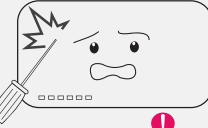
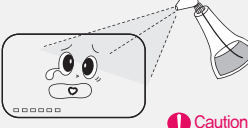

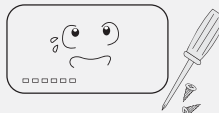


Model	SM3-22 / SM3-23 / SM3-32 / SM3-33 / SM3-61
Frequency(MHz)	433.0500 ~ 434.7900 , 447.8625 ~ 447.9875
Freq Stability	± 10 ppm
Data Rate	1800 bps
Channel space	12.5 KHz
Modulation	FSK (±3KHz)
Output Power	10mW (Max)
Sensitivity	-118dBm (at 12dB)
Power Supply	DC 12V/1A Adapter
Dimension(mm)	288W × 133L × 40H
Battery Life cycle	External Power
Antenna	Tilt base snap-in dipole (External)

## Important Safety Instructions

In order to prevent harm or injury to those using the equipment or to any other persons and/or property, please be sure to read the following safety instructions.

**Warning** This sign warns of possible death or serious injury to persons and/or property.

**Caution** This sign warns of possible damage or injury to persons and/or property.

Power related	 <p><b>Warning</b></p> <p>Make sure the power plug is correctly inserted in to the wall outlet. [If the plug is inserted improperly, it may cause electric shock or generate heat resulting in fire.]</p>	 <p><b>Caution</b></p> <p>Never do anything that might cause damage to the cord or power plug. [This may generate heat resulting in fire.]</p>	 <p><b>Caution</b></p> <p>Do not connect or disconnect the power plug with wet hands. [This may result in electric shock.]</p>
	 <p><b>Warning</b></p> <p>Do not use multiple power plugs on one connector. [This may generate heat resulting in fire.]</p>	 <p><b>Caution</b></p> <p>Unplug the power plug if the main unit is damaged. [It may cause electric shock or generate heat resulting in fire. Please contact service center.]</p>	 <p><b>Caution</b></p> <p>Unplug the power plug, in case of lightening or when unused for long periods of time. [It may cause electric shock or generate heat resulting in fire.]</p>
	 <p><b>Warning</b></p> <p>Do not harm or damage the unit with sharp object such as nail, pencil, or pen. [It will damage the surface of the unit and cause malfunction.]</p>	 <p><b>Caution</b></p> <p>Do not clean the unit with water, benzene, or paint thinner. It may damage insulation of electrical parts resulting in electrical shock or fire.</p>	 <p><b>Caution</b></p> <p>If foreign object enters the unit, please contact service center. It may damage internal parts of the unit resulting in fire electrical shock or fire.</p>
	 <p><b>Warning</b></p> <p>Do not disassemble or modify the unit. If repair of the unit is required, please contact the service center. It may cause electric shock or generate heat resulting in fire.</p>	 <p><b>Caution</b></p> <p>Use only the batteries specified in this manual. [The batteries could leak corrosive liquids, explode or catch on fire.]</p>	 <p><b>Caution</b></p> <p>Dispose used batteries properly and keep away from reach of children. Contact physician immediately when the battery is swallowed by children.</p>
Handling			

## Supplies Per Models

### Main



## Installation guide

To assure the finest performance, please read this manual carefully.

### ① Location

Avoid metal plates, electrical wires, and LED lighting that will shorten reception range.



⚠ Caution

Do not install near any heat sources such as radiators, stoves, or other appliances that produce heat. There is danger of fire or an electric shock.



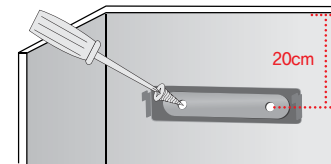
⚠ Warning

The location should be safeguarded from excess moisture, dust, and rain. There is danger of fire or an electric shock.



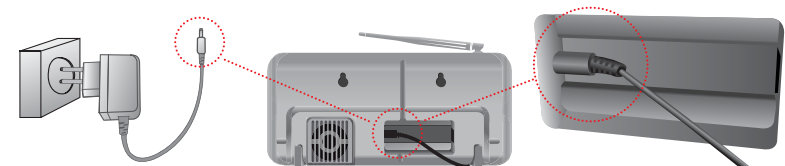
⚠ Caution

### ② Bracket Installation

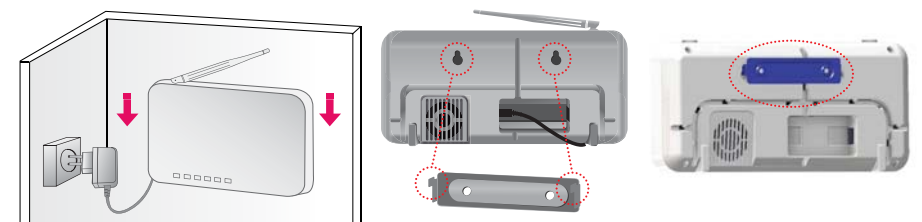


Wall mount bracket should be placed at least 20cm below the ceiling. Reception range can be shorten if placed less than 20cm.

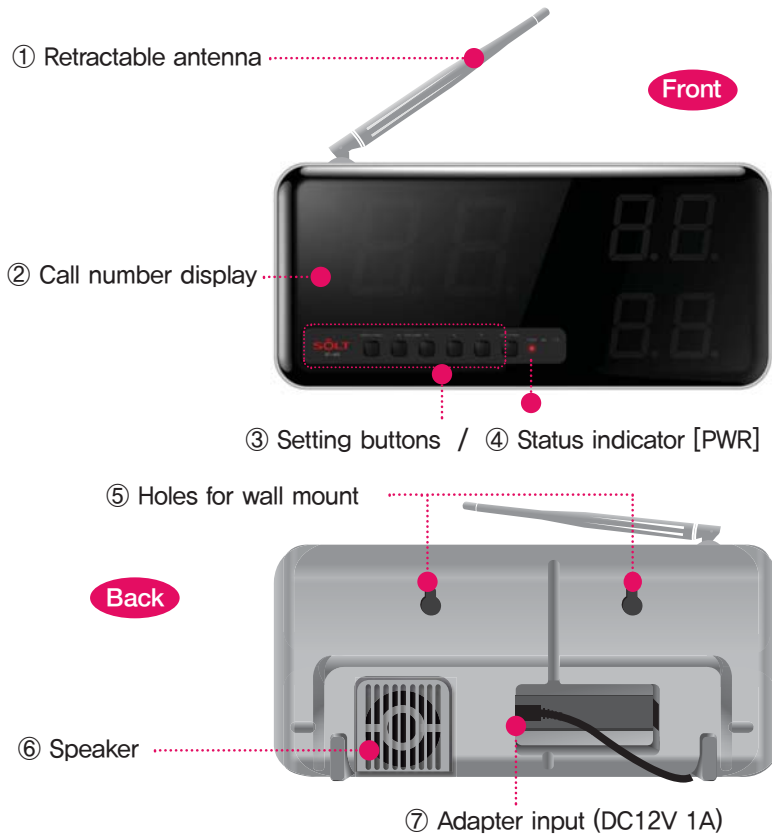
### ③ Power Cord (Use the adaptor provided in the package.)



### ④ Wall Mounting (Pull down the unit until clicking sound is heard.)



## Name of each section



- ① Retractable antenna : 180 degrees pivot.  
 ② Bell number indicator : activated led number varies by different models.  
 ③ Setting buttons

MENU / ESC	<ul style="list-style-type: none"> <li>· Menu button in setting mode</li> <li>· Alphabetic and numeric changing button</li> </ul>
▲ ▼	<ul style="list-style-type: none"> <li>· Up/ Down buttons</li> <li>· Changing volume (0-9 levels): default level is 5</li> </ul> <p>※ To change volume, press up/down to desired level and press SET button</p>
◀ ▶	<ul style="list-style-type: none"> <li>· Left / Right buttons</li> </ul>
SET / PWR	<ul style="list-style-type: none"> <li>· Storing button for set value</li> <li>· Power button</li> </ul>

- ④ Status indicator : Location of indicator differs by different models.

PWR	Red led indicates power is on
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- ⑤ Holes for wall mount : Refer to item 4 of Installation Guide in page 5.  
 ⑥ Speaker : 1.5W / 50Φ x 1.25mm  
 ⑦ Adapter input: DC12V 1A (Use the supplied adapter)

Limited accessory warranty: malfunctioning of supplied adapter during its use is not covered by manufactures' warranty.

Purchasing an adapter with AC220V input, DC12V 1A output is recommended.



AC220V입력 , DC12V 1A

## List of setting modes for Main transceiver

Each setting mode below is activated with using Setting buttons.

F0	<b>New call number registration mode</b> Adds new call number to the list of registered call numbers.
F1	<b>Sound setting mode</b> Sets bell sound for all Bells. (22 bell sounds / default value is 1)
F2	<b>Display time setting mode</b> Sets display duration. (default value is 30 seconds)
F3	<b>Ring repetition setting mode</b> Sets ring repetition number. (default value is 1)
F4	<b>Unique Bell sound setting mode</b> Sets bell sound for individual Bells
F5	<b>Call redundancy interval setting mode</b> Sets interval for redundant calls (default value is 3 seconds)
F6	<b>Call number changing mode</b> Assigns different call number for the Bell.
F7	<b>Call number deleting mode using the Bell</b> Deletes call number from the list using the Bell
F8	<b>All Call number deleting mode</b> Deletes all call number on the registered call number list
F9	<b>Call number deleting mode using the Main unit</b> Deletes call number from the list using the main Unit.
E1	<b>New call number sequence registration mode</b> Sequential registration call number.

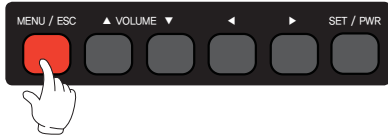


## New call number registration mode

· Adds new call number to the list of registered call numbers.

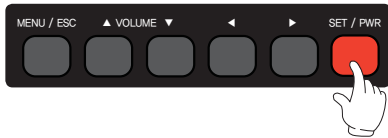
(1) Press and hold (MENU/ESC) button for 3 seconds.

This is call number registration mode.



· Entering setting mode as [F0] is displayed.

(2) Press (SET) button.



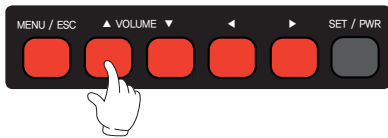
· blinking [0] is displayed.

(3) Press (▲▼◀▶) buttons. Sets a new number.

- Press (◀▶) buttons to move to different digits.
- Press (MENU) button to toggle form Number mode to English mode.

The cipher is changing.

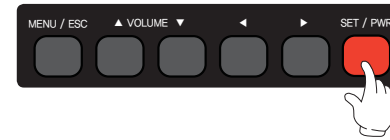
This is english mode.  
This is number setting mode.



Number mode	0 1 2 3 4 5 6 7 8 9  (Blank)
English mode	A b C d E F G h I J K L N n o P q r S t U v w X Y z - _  (Blank)

(4) Press (SET) button.

Press the call number.



· Selected number is blinking.

(5) Press the bell button to register.

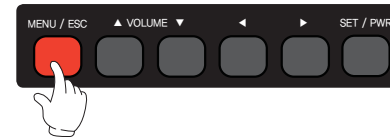
The number has been registered.



· Registration for selected call number is completed.  
To register another Bell, repeat the processes from (3) to (5).

※ " The number already has been registered. " is announced in the case of pressing currently registered Bell button.

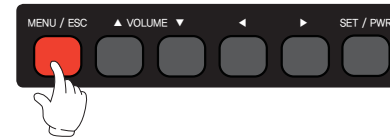
(6) Press and hold (MENU/ESC) button for 3 seconds when registration is finished.



· [F0] is displayed and return to previous step.

※ Press (▲▼) buttons to select different setting mode.

(7) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

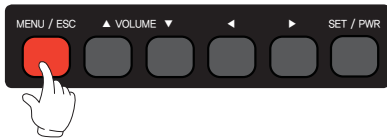


## Sound setting mode

· Sets bell sound for all Bells.

(1) Press and hold (MENU/ESC) button for 3 seconds.

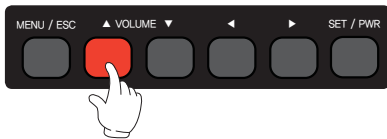
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

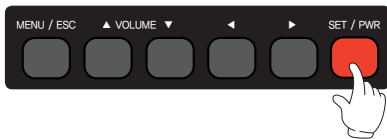
(2) Press (▲) button once.

This is sound setting mode.



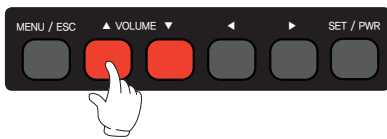
· [F1] is displayed

(3) Press (SET) button.



· selected sound is played as [1] is displayed.

(4) Press (▲▼) buttons. Select the desired bell sound.

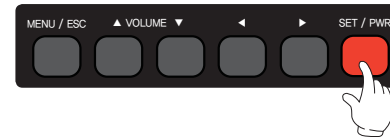


· Selected sound number is displayed.

※ Selected bell sound is played as navigating by pressing (▲▼) buttons.

(5) Press (SET) button.

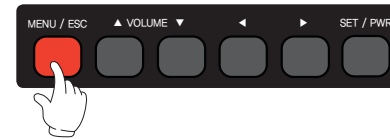
The setting has been completed.



· [F1] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(6) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

### BELL (Preset mode : ding-dong 1)

1	ding-dong 1 (Preset mode)	12	ding-dong 8
2	ding-dong 2	13	ding-dong 9
3	ding-dong-dang 1	14	ding-dong 10
4	ding-dong-dang 2	15	chime bell 1
5	ding-dong 3	16	chime bell 2
6	ding-dong 4	17	cow
7	ding-dong 5	18	pig
8	water drop	19	rooster
9	ding-dong-dang 3	20	siren
10	ding-dong 6	21	birdcall 1
11	ding-dong7	22	birdcall 2

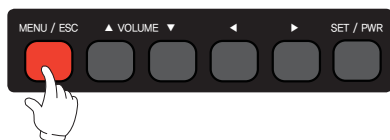


## Time display setting mode

· Sets display duration.

(1) Press and hold (MENU/ESC) button for 3 seconds.

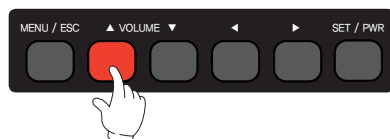
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

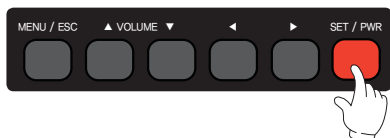
(2) Press (▲) button twice.

This is time display setting mode.



· [F2] is displayed.

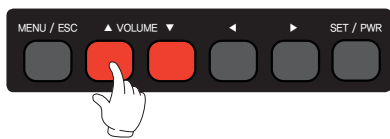
(3) Press (SET) button.



· Blinking [30] is displayed.

※ 30 is set for default. (Unit : second)

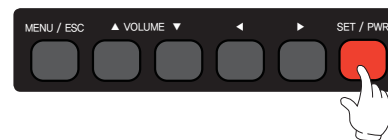
(4) Press (▲▼) buttons. Select the desired duration.



· Selected duration is displayed.

(5) Press (SET) button.

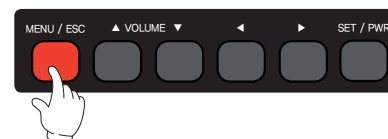
The setting has been completed.



· [F2] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(6) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

### Note!

What is time display setting mode ?

Duration of displaying call number received on Main unit.

[Call number is displayed for 30 seconds as default is set for 30]

※ Call number display is stayed on if 0 is set.

### \*\*\* Remark

This function is not applied to call & cancel models(SM3-\*\*\*C)

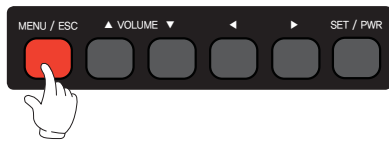


## Sound repeat setting mode

· Set sound repeat number.

(1) Press and hold (MENU/ESC) button for 3 seconds.

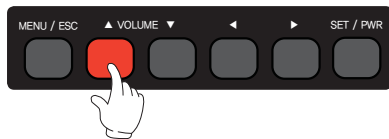
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

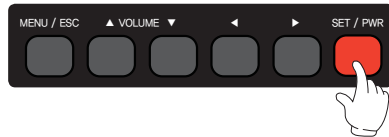
(2) Press (▲) button 3 times.

This is sound repeat setting mode.



· [F3] is displayed.

(3) Press (SET) button.

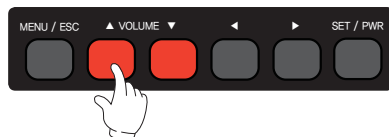


· [1] is displayed.

※ 1 is set for default. (Unit : number)

e.g.) 1 : repeat once  
2 : repeat twice  
3 : repeat 3 times

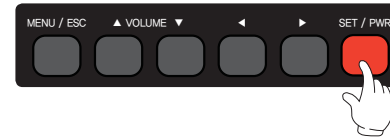
(4) Press (▲▼) buttons. Sets desired number .



· The selected number is displayed.

(5) Press (SET) button.

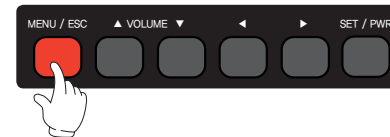
The setting has been completed.



· [F3] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(6) Press (MENU/ESC) button.



· [--] is displayed and ready for reception.



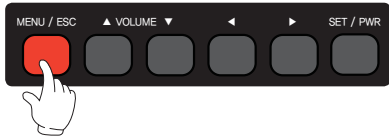


## Selected sound setting mode

· Sets bell sound for individual Bells.

(1) Press and hold (MENU/ESC) button for 3 seconds.

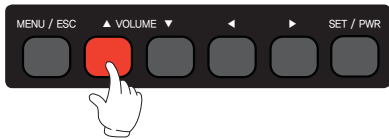
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

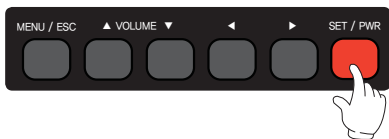
(2) Press (▲) button 4 times.

This is selected sound setting mode.



· [F4] is displayed.

(3) Press (SET) button.



[e.g.]

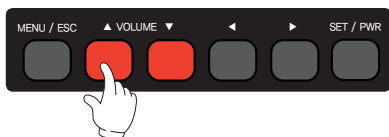


Call number

Bell sound ID

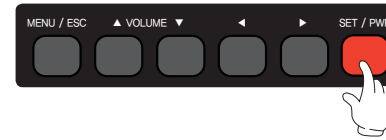
· Registered call number and bell sound ID is displayed and blinking.

(4) Press (▲▼) buttons. Select a call number you want to change.



· Selected call number is displayed and blinking.

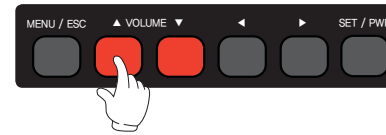
(5) Press (SET) button.



· Bell sound of selected call number is played and stop blinking.

(6) Press (▲▼) buttons. Select Desired sound ID.

Bell sound is played in sequence.



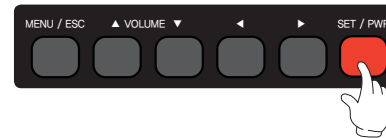
· Selected bell sound ID is displayed.

(7) Press (SET) button.

Do you want to change ?

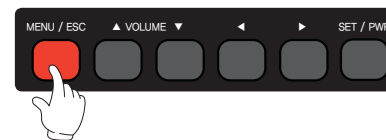
(8) Press (SET) button.

It has been changed.



· To change another call number and its bell sound id, repeat the processes from (4) to (8).

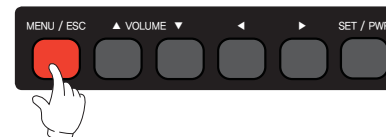
(9) Press (MENU/ESC) button.



· [F4] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(10) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

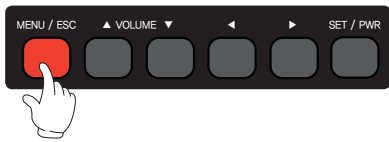


## Repetition call setting mode

· Sets interval for redundant calls.

(1) Press and hold (MENU/ESC) button for 3 seconds.

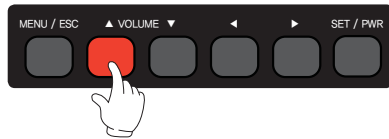
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

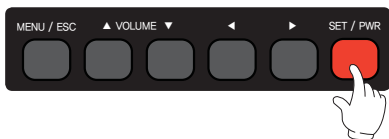
(2) Press (▲) button 5 times.

This is repetition call setting mode.



· [F5] is displayed.

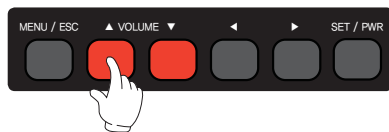
(3) Press (SET) button.



· [3] is displayed.

※ 3 is set for default. (Unit : second)

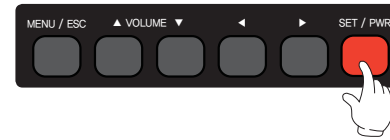
(4) Press (▲▼) buttons. Sets the desired number.



· Selected number is displayed.

(5) Press (SET) button.

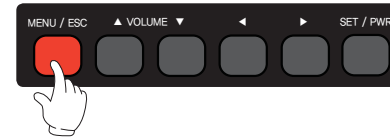
The setting has been completed.



· [F5] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(6) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

### Note!

What is repetition call setting mode?

Redundant call is ignored for certain period of time.

[Redundant call is ignored for 3 seconds as 3 is set for default]

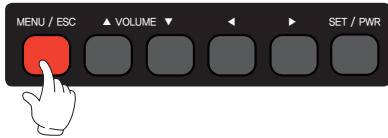


## Call number changing mode

· Assigns different call number for the Bell.

(1) Press and hold (MENU/ESC) button for 3 seconds.

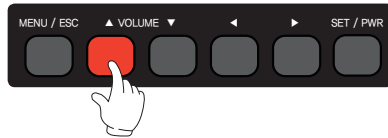
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

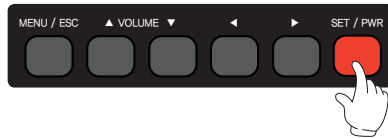
(2) Press (▲) button 6 times.

This is call number changing Mode.



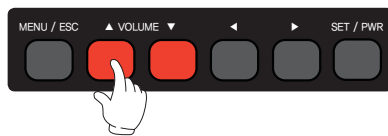
· [F6] is displayed.

(3) Press (SET) button.



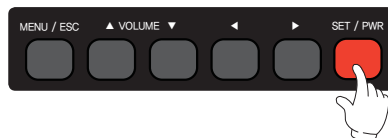
· Registered call number is displayed.

(4) Press (▲▼) buttons. Select the call number you want to change.



· Selected call number is displayed.

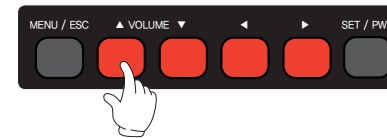
(5) Press (SET) button.



· The Last digit is blinking.

(6) Press (▲▼◀▶) buttons. sets desired to call number.

· Press (◀▶) buttons to move to different digits.



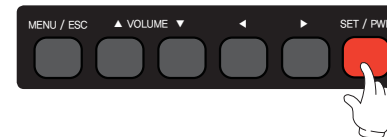
· Set call number is displayed.

(7) Press (SET) button.

Do you want to change ? · Set call number is blinking.

(8) Press (SET) button.

It has been changed.

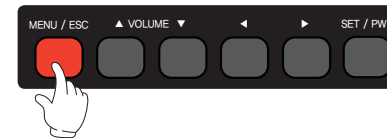


· Registered another number is displayed.

· "It has been changed." is played.

· To change another call number, repeat the processes from (4) to (8).

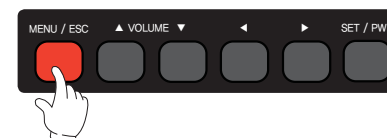
(9) Press (MENU/ESC) button.



· [F6] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(10) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

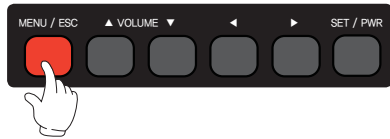


## Deleting selected call number mode

· Deletes call number from the list using the Bell.

(1) Press and hold (MENU/ESC) button for 3 seconds.

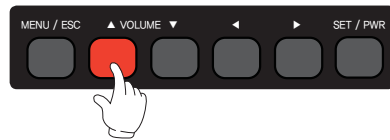
This is Call Number Registration Mode.



· Entering setting mode as [F0] is displayed.

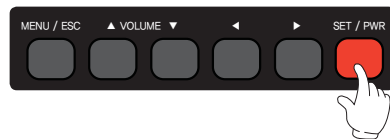
(2) Press (▲) button 7 times.

This is deleting selected call number mode.



· [F7] is displayed.

(3) Press (SET) button.



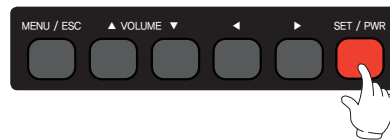
[e.g.]

Total registered



(4) Press (SET) button.

Press the call number.



[e.g.]

Total registered



· Blinking [---] is displayed.

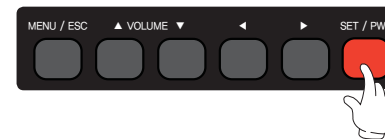
(5) Press the delete button. Do you want to delete it ?



· Selected call number is displayed and blinking.

(6) Press (SET) button.

It has been deleted.



[e.g.]



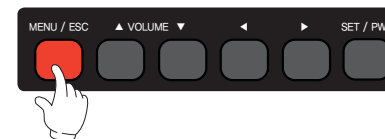
· Blinking [---] is displayed.

· "It has been deleted." is played.

· To delete another call number, repeat the processes from (4) to (6).

Total registered

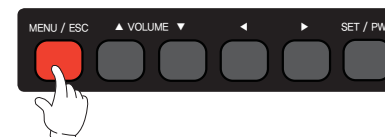
(7) Press (MENU/ESC) button.



· [F7] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(8) Press (MENU/ESC) button.



· [---] is displayed and ready for reception.

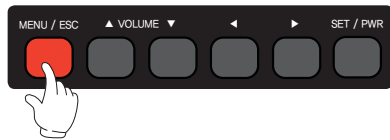


## Every call number deleting mode

· Deletes all call number on the registered call number list.

(1) Press and hold (MENU/ESC) button for 3 seconds.

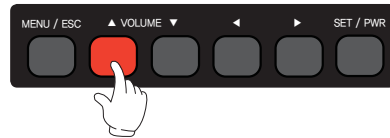
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

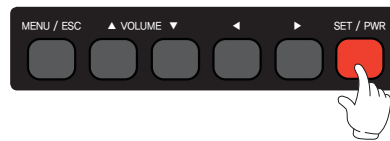
(2) Press (▲) button 8 times.

This is Every call number deleting mode.



· [F8] is displayed.

(3) Press (SET) button.



· Blinking [AL] is displayed.

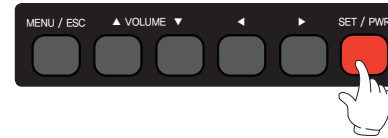


[e.g.]

Total registered

(4) Press (SET) button.

Do you want to delete all the numbers ?



[e.g.]

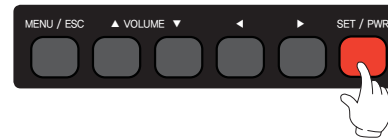


· Blinking [dE] is displayed.

Total registered

(5) Press (SET) button.

It has been deleted.



· [F8] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(6) Press (MENU/ESC) button.



· [--] is displayed and ready for reception.



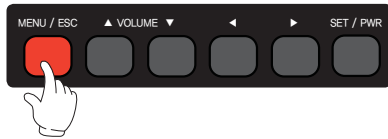
## See all numbers or deleting each call number mode

· All register list / Deletes call number from the list using the main Unit.

### All register list

(1) Press and hold (MENU/ESC) button for 3 seconds.

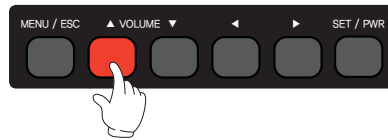
This is call number registration mode.



· Entering setting mode as [F0] is displayed.

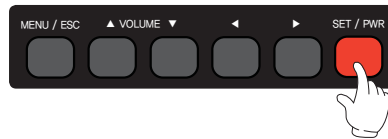
(2) Press (▲) button 9 times.

This is see all numbers or deleting each call number mode.



· [F9] is displayed.

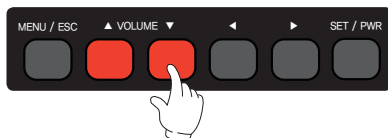
(3) Press (SET) button.



· Registered call number is displayed.



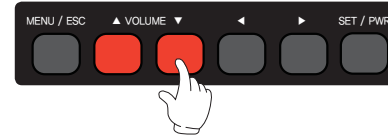
(4) Press (▲▼) buttons. You can check the entire call number is registered.



· Registered with the call number will be displayed sequentially.

### Deleting call number

(5) Press (▲▼) button. Select the call number you want to delete.



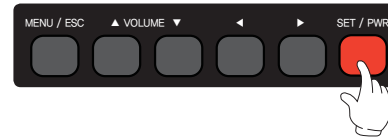
· Selected call number is displayed and blinking.

(6) Press (SET) button.

Do you want to delete it ?

(7) Press (SET) button.

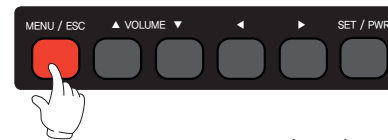
It has been deleted.



· Selected Call number is deleted and total registered number is changed accordingly.  
· To delete another call number, repeat the processes from (5) to (7).



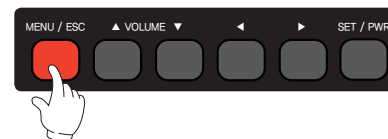
(8) Press (MENU/ESC) button.



· [F9] is displayed and returns to previous step.

※ Press (▲▼) buttons to select different setting mode.

(9) Press (MENU/ESC) button.



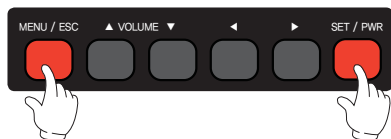
· [--] is displayed and ready for reception.



## New call number sequence registration mode

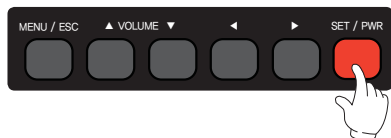
· Sequential registration call number.

(1) Press and hold (MENU + SET) button for 3 seconds.



· Entering setting mode as [E1 Sb] is displayed.

(2) Press (SET) button.



· blinking [1] is displayed.

(3) Press the bell button to register. Sequence is registered.

· Sequential register : 1, 2, 3, 4, 5, ..... 10, 11, ....

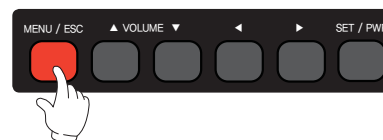


※ If you are not sequential registration.

- Press (◀▶) buttons to move to different digits.
- Press (MENU) button to toggle form Number mode to English mode.

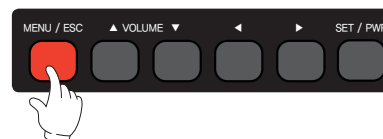
Number mode	0 1 2 3 4 5 6 7 8 9 <small>(Blank)</small>
English mode	A b C d E F G h I J K L N n o P q r S t U v u H y z - _ <small>(Blank)</small>

(4) Press and hold (MENU) button for 3 seconds when registration is finished.



· [E1 Sb] is displayed and return to previous step.

(5) Press (MENU/ESC) button.



· [--] is displayed and ready for reception.

## Checkup prior to a notification

- If you find the symptom as following from your product, please recheck.  
It may not be an obstacle.

Main / Bell	
Trouble	Check
No power-on on main transmitter.	<p>Check the power connection of a main transmitter and if the adaptor is fitted to an outlet correctly.</p> <p>※ As an adaptor is a consumptive goods, we recommend to change it through our agency or <b>AC220V INPUT , DC12V 1A</b> for your direct purchasing.</p>
Main display does not receive the number or displays a different number.	<p>Check if the bell is registered to main monitor and if dip switches are changed.</p> <p>(Refer to " All register list " on page 28)</p>
When push a bell, it does not make a call, not lighting a LED.	<p>If the battery of a bell is consumed or reached to a low voltage, please change to new one.</p> <p>※ The Bell includes batteries usable for 2~3 years.            ※ <b>CR2032 Coin Cell Battery 1EA</b></p>

- ※ As this product is a wireless communication equipment, it may not receive a number or a different number due to a surrounding environment or an interference of electronic machine.